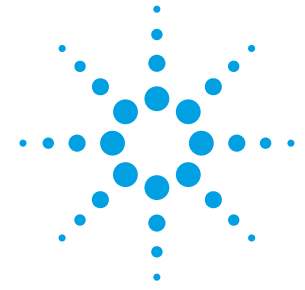# Agilent E5072A ENA Series Network Analyzers

Configurable Test Set, 2-port, 30 kHz to 4.5/8.5 GHz

ENA with configurable test set

Agilent E5072A Network Analyzer, a member of the ENA Series has a more flexible platform and enhanced capabilities that can meet your evolving measurement needs in a wide range of applications (i.e. power amplifiers, high-power or high-rejection measurements). Improved performance of the E5072A exceeds what is possible with current RF network analyzers.
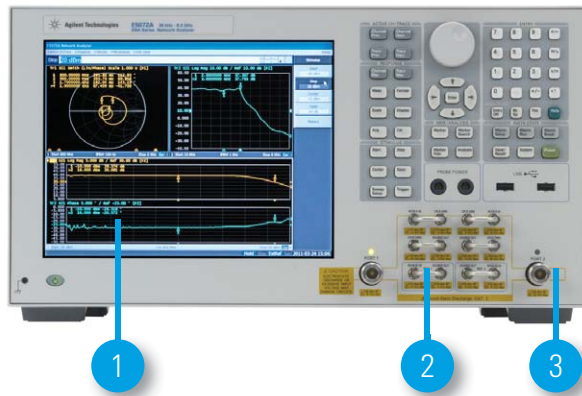
1. 10.4-inch XGA (1024x768) LCD touch screen

2. Test port jumpers for direct source/receiver access

3. Same front panel size as 8753ES and E5071C

Key specifications

Frequency	E5072A-245 : 30 kHz to 4.5 GHz
	E5072A-285 : 30 kHz to 8.5 GHz
Test set	2-port, configurable test set (standard)
Port output power	−85 to 16 dBm (at 300 kHz to 3 GHz, spec)
	−85 to 20 dBm (at 300 kHz to 1 GHz, SPD *1)
Dynamic range	> 123 dB (at 10 MHz to 6 GHz, IFBW = 10 Hz)
Extended dynamic range [2]	151 dB (at 10 MHz to 3 GHz, IFBW = 10 Hz. SPD [1])
Trace noise	0.004 dB rms (IFBW = 70 kHz)
Cycle time	33 ms (IFBW = 100 kHz, Span = 200 MHz, Center = 1.1 GHz, 1601 points, Full 2-port cal)
Bias tee current	300 mA (spec), 1 A (damage level)

1. SPD or supplemental performance data represents the value of a parameter most likely to occur, not guaranteed by product warranty.
2. Extended dynamic range is calculated as the difference between the direct receiver access input noise floor and the source maximum output power.

Configurable test set

The E5072A with the standard configurable test set option provides access to the signal paths such as source or receivers. You can improve instrument sensitivity or to add components/ peripherals for more accurate and fast measurements.

Wide output power range

The E5072A delivers the source power level up to +20 dBm from the test port. By eliminating additional booster amps, the E5072A can perform measurements of compression characteristics of active devices with a single power sweep.
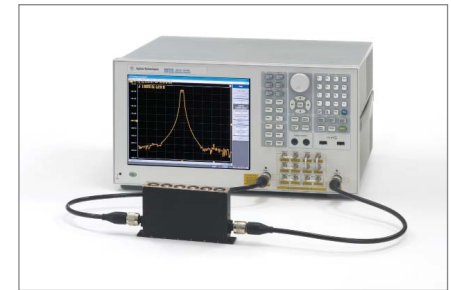
Compatible with the E5071C and 8753

The E5072A leverages all existing features of the 2-port E5071C. 100% code compatibility is guaranteed between the E5072A and the E5071C with firmware revision 9.61 or before. The E5072A also offers a powerful code emulation tool (cXL) for 8753ES, which can minimize your transition risk or cost from legacy network analyzers to the E5072A.

Agilent Technologies

Agilent E5072A ENA Series Network Analyzers

Configurable Test Set, 2-port, 30 kHz to 4.5/8.5 GHz

Model

Options	Description
E5072A	ENA Series Network Analyzer

Options

Test set options	Frequency
E5072A-245	Configurable test set, 30 kHz to 4.5 GHz
E5072A-285	Configurable test set, 30 kHz to 8.5 GHz

Options	Frequency
E5072A-008	Add frequency offset mode
E5072A-010	Add time-domain analysis
E5072A-017	Removable hard disk drive
E5072A-019	Standard hard disk drive
E5072A-1E5	High stability time base
E5072A-810	Add keyboard
E5072A-820	Add mouse
E5072A-1CM	Rack mount kit
E5072A-1CN	Front handle kit
E5072A-1CP	Rack mount and front handle kit
E5072A-1A7	ISO 17025 compliant calibration
E5072A-A6J	ANSI Z540 compliant calibration

Recommended Accessories

Options	Description
N6314A	Test port cable, Type-N(m-m), 50 Ω, 24 inches
85032F	Standard mechanical calibration kit, DC to 9 GHz, Type-N, 50 Ω
85033E	Standard mechanical calibration kit, DC to 9 GHz, 3.5 mm, 50 Ω
85052C	Precision TRL cal kit, DC to 26.5 GHz
85092C	RF electronic calibration (ECal) module, 300 kHz to 9 GHz, Type-N, 50 Ω, 2-port
85093C	RF electronic calibration (Ecal) module, 300 kHz to 9 GHz, 3.5 mm, 50 Ω, 2-port
N4431B	RF electronic calibration (Ecal) module, 9 kHz to 13.5 GHz, 4-port
11878A	50 Ω Type N to 3.5 mm adapter kit

www.agilent.com/find/e5072a

For additional information about the E5072A, refer to following literature.

Pub Number	Name
5990-8001EN	Configuration Guide
5990-8002EN	Data Sheet
5990-8004EN	Technical Overview

Recommended service options

Additional two years of Return-to Agilent warranty

Additional two years of Return-to Agilent calibrations

For more information go to **www.agilent.com/find/removealldoubt**

Agilent Technologies